

RESEARCH AND DEVELOPMENT, NEUCHATEL - QUARTERLY REPORT

DIVISION : QUALITY ASSURANCE + TECHNICAL SERVICES
SUBJECT TITLE : CIGARETTE AND SMOKE ANALYSIS
PERIOD COVERED : OCTOBER - DECEMBER 1988
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KEYWORDS : Legislation, Denmark, Portugal, TSE, Turkey,
SASO

DANISH LEGISLATION (SEF)
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Following an agreement between the Danish Tobacco Industry and the Ministry for the Interior, the tar and smoke nicotine values should be printed on the packets.

The ISO confidence interval of 15% for tar and SN was adopted as the actual tolerance limits with a minimum of +/- 1 mg for tar and +/- 0.1 mg for SN.

Furthermore the mention "Mild" "Medium" and "Strong" should be printed according to the tar level.

Mild	:	under 16 mg
Medium	:	16-20 mg
Strong	:	20 mg and over.

PORTUGUESE LEGISLATION (SEF)
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We have recently been informed that the tolerance limits for brands sold in this country are 15% for tar and smoke nicotine values but at least 1 mg for tar and 0.1 mg for smoke nicotine (1).

VISIT OF TSE ENGINEERS (TURKISH STANDARDS INSTITUTE) (SEF)
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The objective of this visit was to give relevant information which enabled the TSE visitors to recognize the validity of ISO-DP 3287-1988, excluding channel-ventilated cigarettes from the application field of ISO 4387-1987 (2).

2028635397

RESEARCH AND DEVELOPMENT, NEUCHATEL - QUARTERLY REPORT

All necessary technical information was given and various tests were carried out with the Puff Parameter Analyzer (PPA) and Filtrona 300 smoking machines. They showed that:

Tar and smoke nicotine deliveries increase when ventilation decreases as channels are progressively blocked. These tests enable us to explain why the actual smoke deliveries of smokers are higher than those determined according to ISO (see Appendix 1, graphic representation).

PROJECT SASO (RHO)

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A. Objective

To acquire a high level of credibility, SASO's chemists need practice. In order to confirm their expertise, after an initial internal training session, a round robin test involving PME R&D was organized (3).

Their level of self-confidence in unexpected situations has to be increased so that they can perform troubleshooting by themselves.

B. Status

The SASO smoking laboratory got excellent publicity from the Kuwaiti TV and analysis requests have been made by several importers.

Because SASO's chemists are lacking self-confidence when they are faced with a break-down or unexpected situation, these requests had to be postponed. We have been asked to supply them with assistance so that they can fix the equipment.

It is now obvious that more efforts will have to be invested in order to bring the chemists to a point where they can understand why equipment does not work and how to fix it. This can be achieved by letting them experience problems which they should report to us so that we can assist them by phone or, depending upon the seriousness of the situation, by being on the spot.

C. Plans

1. Monitor, as far as possible, their results.
2. Show them that we feel involved when a serious problem occurs.

2028635398

RESEARCH AND DEVELOPMENT, NEUCHATEL - QUARTERLY REPORT

PRODUCT REPORTS (SEF)

Product Reports were written for the following new brands:

<u>Brand</u>	<u>Printed values</u>	<u>Manufacturer</u>	<u>Country of sale</u>
Boston KS/F	Tar/SN=15/1.1	Landewyck	Belgium
Benson & Hedges Ultra legere KS/F	Tar/SN=3.9/0.30	Gallaher	France
Camel Extra Mild KS/F	Tar/SN=4.6/0.46	Reynolds, DB	France
Capri 100/F	Tar/SN=8.9/0.89	BAT, DB	France
Camel Lights KS/F	Tar/SN=6/0.6	Reynolds	West Germany
Windsor KS/F	Tar/SN=2/0.2	Brinkmann	West Germany
Capri 100/F		Bat, DB	Italy
Now KS/F	DPM/SN=1.4/0.20	Reynolds, DB	Italy
Rothmans Leggera 100/F		Rothmans	Italy
R1 Slim Line 100/F		Reemtsma, DB	Italy
Gauloises Blondes Legeres KS/F	Tar/SN=9/0.8	Rinsoz & Ormond	Switzerland
Casablanca KS/F	Tar/SN = 7/0.7	Austria T.	Switzerland
Black Cat Superkings 100/F		Rothmans	United Kingdom
Craven "A" Menthol KS/F		Rothmans	United Kingdom

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RESEARCH AND DEVELOPMENT, NEUCHATEL - QUARTERLY REPORT

REFERENCES

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1. Report by Senehi-F. dd. December 15, 1988
2. Report by Senehi-F. Zuber-J. dd. December 22, 1988
3. Report by Hofer-R. dd. October 10, 1988

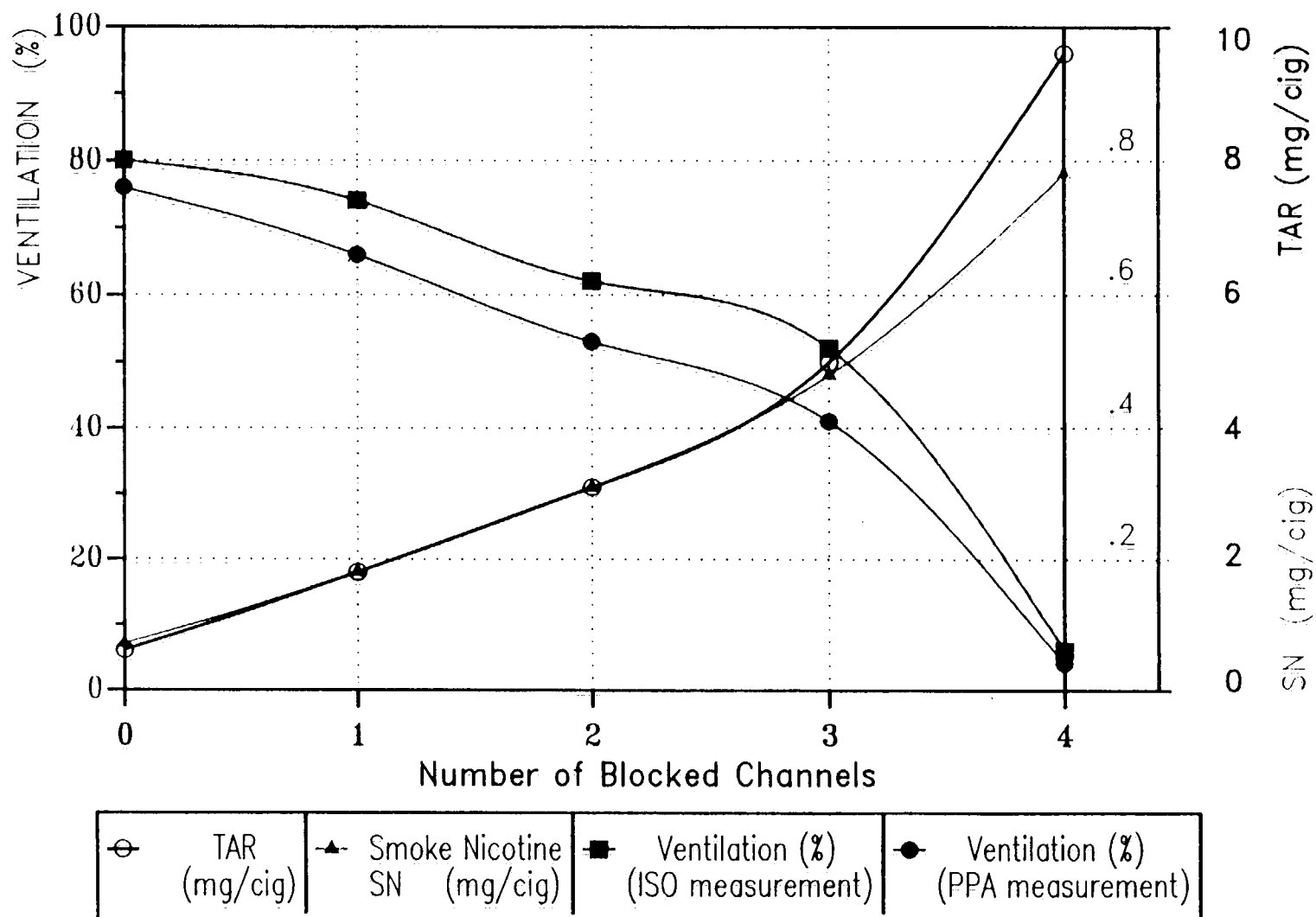
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ISO Mechanical Smoking of BARCLAY Cigarettes TAR, SN & VENTILATION as a Function of Blocked Channels

RESEARCH AND DEVELOPMENT, NEUCHÂTEL - QUARTERLY REPORT

APPENDIX 1



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